

**IN THE CLAIMS:**

Please cancel claims 18-28 and 38-47 without prejudice.

1. (Original) An ultrasound catheter comprising:
  - an elongate flexible catheter body having a proximal end, a distal end, and a main lumen extending longitudinally therethrough;
  - an ultrasound transmission member extending longitudinally through the main lumen of the catheter body, the ultrasound transmission member having a distal end positioned at the distal end of the catheter body; and
  - a guidewire lumen extending longitudinally through a portion of the main lumen and terminating in a guidewire port that is closer to the proximal end of the catheter body than to the distal end of the catheter body.
2. (Original) The device of claim 1, further including a Y-connector connected to the proximal end of the catheter body, with the guidewire port positioned adjacent the Y-connector.
3. (Original) An ultrasound catheter comprising:
  - an elongate flexible catheter body having a proximal end, a distal end, and at least one lumen extending longitudinally therethrough;
  - a distal head positioned on the distal end of the catheter body, the distal head made from low-density material that is rigid and radio-dense; and
  - an ultrasound transmission member extending longitudinally through the at least one lumen of the catheter body, the ultrasound transmission member having a distal end connected to the distal head.
4. (Original) The catheter of claim 3, wherein the material of the distal head is a Titanium alloy.
5. (Original) The catheter of claim 3, wherein the material of the distal head is a Magnesium alloy.

6. (Original) The catheter of claim 3, wherein the material of the distal head is selected from the group consisting of ABS, Polycarbonate, Polyphenylene Oxide, Polyarylate, Polysulfone, and any alloys thereof.

7. (Original) The catheter of claim 3, wherein the material of the distal head has an average density that is less than 5 g/cm<sup>3</sup>.

8. (Original) The catheter of claim 3, wherein the total mass of the distal head is less than 0.015 grams.

9. (Original) The catheter of claim 3, wherein the material of the distal head is an Aluminum alloy.

10. (Original) An ultrasound catheter comprising:  
an elongate flexible catheter body having a proximal end, a distal end, and a main lumen extending longitudinally therethrough;  
an ultrasound transmission member extending longitudinally through the main lumen of the catheter body, the ultrasound transmission member having a distal end positioned at the distal end of the catheter body; and  
a guidewire lumen extending longitudinally through a portion of the main lumen and positioned at about the center of the main lumen.

11. (Original) The catheter of claim 10, wherein the guidewire lumen terminates in a guidewire port that is adjacent the proximal end of the catheter body.

12. (Original) The catheter of claim 10, wherein the guidewire lumen is defined by a guidewire tube that is affixed to the distal head.

13. (Original) The catheter of claim 12, wherein the guidewire lumen is positioned at about the center of the distal head.

14. (Original) An ultrasound catheter comprising:

an elongate flexible catheter body having a proximal end, a distal head, and a main lumen extending longitudinally therethrough, the distal head having a bore with a proximal section and a distal section that has an inner diameter that is smaller than the inner diameter of the proximal section of the bore;

an ultrasound transmission member extending longitudinally through the main lumen of the catheter body, the ultrasound transmission member having a proximal end and a distal end positioned at the distal head of the catheter body; and

a guidewire lumen extending longitudinally through a portion of the main lumen, and into the proximal section of the bore of the distal head, the guidewire lumen terminating before the distal section of the bore of the distal head.

15. (Original) The catheter of claim 14, wherein the guidewire lumen is defined by a guidewire tube that is affixed to the distal head.

16. (Original) The catheter of claim 14, wherein the guidewire lumen has a proximal end and a distal end, and wherein the proximal end of the guidewire lumen terminates adjacent the proximal end of the catheter body and is affixed to the catheter body.

17. (Original) The catheter of claim 14, wherein the guidewire lumen has a proximal end and a distal end, and wherein the proximal end of the guidewire lumen terminates adjacent the distal end of the catheter body and is affixed to the catheter body.

18-28. (Canceled).

29. (Original) An ultrasound catheter comprising:  
an elongate flexible catheter body having a proximal end, a distal end, and at least one lumen extending longitudinally therethrough;  
an ultrasound transmission member extending longitudinally through the at least one lumen of the catheter body, the ultrasound transmission member having a proximal end and a distal end positioned at the distal end of the catheter body; and  
a sonic connector positioned at the proximal end of the catheter body for connecting the proximal end of the ultrasound transmission member to an ultrasound generating device at a location where there is maximum longitudinal displacement of the ultrasound generating device.

30. (Original) The catheter of claim 29, further including a catheter knob having a bore which surrounds the sonic connector and a portion of the ultrasound transmission member.

31. (Original) The catheter of claim 30, further including an absorber retained inside the bore of the catheter knob.

32. (Original) The catheter of claim 30, wherein the sonic connector comprises a proximal section for connection to the ultrasound generating device, and a front portion defining the bore which receives the proximal end of the ultrasound transmission member.

33. (Original) The catheter of claim 31, wherein the absorber includes a plurality of O-rings.

34. (Original) The catheter of claim 31, wherein the absorber includes at least two different absorbers positioned adjacent to each other.

35. (Original) The catheter of claim 31, wherein the absorber includes a first absorber and a second absorber, with the first absorber spaced apart from the second absorber.

36. (Original) An ultrasound catheter comprising:  
an elongate flexible catheter body having a proximal end, a distal end, and at least one lumen extending longitudinally therethrough;  
an ultrasound transmission member extending longitudinally through the at least one lumen of the catheter body, the ultrasound transmission member having a proximal end attached to sonic connector, and a distal end attached to the distal end of the catheter body; and  
a sonic connector for connecting the ultrasound transmission member to an ultrasound generating device, the sonic connector having:  
a distal bore to which the ultrasound transmission member is attached;  
a central portion having a flat proximal face;  
a threaded portion extending and spaced-apart from the flat proximal face, the threaded portion attached to the ultrasound generating device.

37. (Original) The catheter of claim 36, further including a space between the threaded portion and the flat proximal face, with the face being free of any threads.

38-47. (Canceled).